Team Meeting #8

10/23/19

Barcode Scanner

- Allows for us to change output gotten by scanner to get us to where we want
- Reference PowerPoint 10-23

Intake System

- Variation isn't to scale on Ian's

Swenson's Notes

- Wants us to potentially test Ian's second idea
- Like's gravity idea
- If we do the second idea we would have to add guiderails afterward
    - Infrared sensor?
- Another problem, with diameter changing our encoder will be different lengths
    - Something to consider
- Put Encoder on bottom and hinge the motor
- 3D print wheels
- Laser cut rails/casing
- Just reiterates need to get Model TR1
    - More research on mounting of encoder
- For a guillotine what about a linear actuator instead of a string method?
- Heat a wire up to identify if this method will work
    - Mouse-Trappy
    - Metal gears for durability
    - Rack would have to be die-cast
    - It would take a lot of time
    - Would not be easily replaceable
    - Creates a pinch point
    - Debris can get caught in teeth
    - Once again maybe a linear actuator or power screw instead
- Material Lexan!
    - Max's Experience solution will discolor it
- Must have air for electronics
    - Look for IP 51 or 52
- 80 20 for frame
    - Structural framing

    - Allows for easy take-down
    - Slotted Aluminum
    - 80 20 Aluminum extrusion
- Instead of Encoder
    - Optical Sensor

Action Items

- Rapid Prototype Cutters-Everyone (Rennie/Ian in charge)
- Buy things (Kyle)
- Design Validation Plan (Alyssa)